Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.		4			
LM End		Issue Type +	Ма	Location *	ocation * N/A				
Earthen Levee				GPS La	atitud	e/Longitude			
Category				Start		End			
Item		s & Maintena	nce		0		0		
пеш	Manuals				0		0		
DWR ID DWR_RD2089_01_s _ 2013_4									
		Comn	nent Cod	de					
			_						
		Inspecto	or Comm	nent					
The O&M	Manual is	available at th	e LMA's	office.					

No Photos

LM Start		Rating **	Α	Issue No.		15	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item		y Supplies &			0		0
itein	Equipmen	it			0		0
DWR ID	DWR_RD2	089_01_s _ 201	3_15				
		Comn	nent Coc	de			
		Inspecto	or Comm	nent			
The LMA h	nas flood fi	ghting supplie	s on-site	€.			

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start		Rating **	М	Issue No.		34	
LM End		Issue Type + M		Location *		N/A	
Category	Earthen Levee			GPS Latitude/Lor			
Calegory				Start		End	
Item	Flood Pre	ood Preparedness & Training			0		0
пеш					0		0
DWR ID	DWR_RD2	089_01_s _ 201	3_34				
		Comn	nent Cod	le			

Inspector Comment

The LMA has not attended a flood fight training class in the past few years. They do have an emergency plan.

No Photos

LM Start	0.04	Rating **	М	M Issue No.		1
LM End	0.04	Issue Type +	Ма	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory			Start		End	
Item	Encroach	ments		37.8114	74°	37.811474°
пеш				-121.3855	73°	-121.385573°
DWR ID	R ID DWR_RD2089_01_s _ 2012_1					·

Comment Code

ST : Stairway

Inspector Comment

Steps have been cut into the levee slope, this could become an erosion point, please fill and compact.



View of the stairs eroding into the landside levee slope.

LM Start	0.04	Rating **	М	Issue No.	30		
LM End	0.24	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee	GPS Latitude/Longitude				
Category				Start End			
Item	Vegetatio	n		37.81147	74 °	37.810451 °	
item				-121.38557	73 °	-121.389109°	
DWR ID	DWR_RD2	089_01_f _ 201	6_30				
		_					

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of the vegetation on the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.24	Rating **	A/W	Issue No.		940	
LM End	0.24	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitu			
Calegory				Start		End	
Item	Vegetatio	n		37.8104	12°	37.810412°	
пеш				-121.3891	15°	-121.389115 °	
DWR ID	DWR_RD2089_01_s _ 2012_940					·	
	Comment Code						

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arundo has been trimmed back from the crown but still remains as an obstruction to the slope and obstructs visibility, needs to be removed.

Photo 1 of 1 : FA_2016_RD2089_316_940_20160914_00027.jpg



The LMA is actively trying to remove the vegetation on the landside levee slope and toe.

LM Start	0.27	Rating ** U		Issue No.		12
LM End	0.39	Issue Type + Ma		Location *		LS
Category	Earthen L	evee	GPS La	atitud	e/Longitude	
Calegory			Start		End	
Item	Vegetatio	n		37.8103	19°	37.809740°
пеш						-121.391645°
DWR ID	DWR_RD2089_01_s _ 2012_12					

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Access and visibility completely blocked. 11/10/2011 issue has not changed.

Photo 1 of 1 : FA_2016_RD2089_316_12_20160914_00011.jpg



Thick brush and wild rose completely block access and visibility of landside slope and toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.33	Rating **	U	Issue No.		19		
LM End	0.33	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Vegetatio	n		37.8100	002 °	37.810002°		
пеш				-121.390674° -121.39067				
DWR ID	DWR_RD2	089_01_s _ 201	2_19					
		Comn	nent Cod	de				
V2 : Remo slopes.	ve the wild	d growth other	than na	tive grasse	s fro	m the levee		
Inspector Comment								
Arundo is thick and blocks visibility and access.								

LM Start	0.33	Rating **	U	Issue No.	19 (cont)
LM End	0.33	Issue Type +	Ma	Location *	LS



View of the arundo back on the landside levee slope. Fall 2016

Photo 2 of 2: FA_2016_RD2089_316_19_20160914_00015.jpg



Arundo was trimmed back from the road and needs to be maintained so that it does not obstruct visibility and access to the landside toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.41	Rating **	М	Issue No.		Issue No.		28
LM End	0.46	Issue Type +	Ma	Location *		LS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory			Start		End			
Item	Vegetatio	n		37.8095	93°	37.809507°		
item						-121.392907°		
DWR ID DWR_RD2089_01_s _ 2012_28						·		

Comment Code V2 : Remove the wild growth other than native grasses from the levee

Inspector Comment

Vegetation is too thick to allow access and visibility. Some thick patches of shrubs remain and continue to block visibility and access.



05/24/2011 Photo shows thick dead vegetation and continuation of trees in area that are preventing access and visibility of landside slope and toe.

LM Start	0.46	Rating **	М	Issue No.		5		
LM End	0.46	Issue Type +	Ма	Location *		Ma Location *		WS
Category			GPS Latitude/Longitude					
Category				Start		End		
Item	DWR Ero	sion Survey		37.8093	94°	37.809394°		
пеш					91 °	-121.392791 °		
DWR ID						•		

Comment Code

Inspector Comment

07/25/2016: No significant change observed. 06/25/2015: No significant change observed.

slopes.

07/02/2014: No significant change observed.

08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed

08/23/2011: The site shows loose material around the pipe crossing. The operation of the pipe might have caused an impact on the levee. [2016 Site ID:RD2089U01RM29.8]

Photo 1 of 2: SJR2016_RD2089U01RM29.8_1.jpg



Front view of the site. Note the irrigation pipe on the site.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.46	Rating **	М	Issue No.		5 (cont)		
LM End	0.46	Issue Type +	Ma	Location *		Location *		WS
Category			GPS Latitude/Longitude					
Calegory	gory			Start		End		
Item	DWR Ero	sion Survey		37.8093	94°	37.809394 °		
item			-121.3927	91 °	-121.392791 °			
DWR ID						·		

Comment Code

Inspector Comment

07/25/2016: No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed.

08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed

08/23/2011: The site shows loose material around the pipe crossing. The operation of the pipe might have caused an impact on the levee. [2016 Site ID:RD2089U01RM29.8]



Close view of the site.

LM Start	0.47	Rating **	М	Issue No.	27		
LM End	0.55	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Vegetatio	n		37.8095	92°	37.810136°	
item				-121.3929	93 °	-121.394259°	
DWR ID DWR_RD2089_01_f _ 2016_27							
Comment Code							

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Photo 1 of 1: FA_2016_RD2089_316_27_20161017_00049.jpg



View of the vegetation on the landside levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.50	Rating **	U	Issue No.		29	
LM End	0.55	Issue Type +	Ма	Location *		WS	
Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	Vegetatio	n		37.8098	14°	37.810132°	
item				-121.3934	81 °	-121.394234°	
DWR ID DWR_RD2089_01_f _ 2016_29							
		Comn	nent Cod	de			
V2 : Remo	ove the wild	d growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			
Tumbleweeds are on the levee slope.							



View of the vegetation on the waterside levee slope.

LM Start	0.54	Rating **	М	Issue No.		14	
LM End	0.54	Issue Type +	Ma	Location *		CR	
Category Earthen Levee			GPS La	atituc	le/Longitude		
Category				Start		End	
Item		rface / Depres	ssions /	37.8100	87°	37.810087°	
пеш	Rutting			-121.394200 °		-121.394200 °	
DWR ID DWR_RD2089_01_s _ 2012_14							
		Comn	nent Cod	de			
C3 : Add a	ppropriate	gravel or road	d base.	Grade and	com	npact.	
			_				
		Inspecto	or Comm	nent			
11/10/201	1 Minor de	pressions will	cause p	onding.			



11/10/2011 Depressions in crown.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.67	Rating **	U	Issue No.		3
LM End	0.67	Issue Type +	Ma	Location *	Location * WS	
Category	ental	GPS Latitude/Longitude				
Calegory			Start		End	
Item	DWR Ero	sion Survey		37.8097	80°	37.809780°
пеш				-121.3962	30°	-121.396230°
DWR ID						

Inspector Comment

Comment Code

07/25/2016: No significant change observed. 06/25/2015: No significant change observed.

07/02/2014: No significant change observed. 08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed

08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new erosion activities observed. Dense white willow trees on site.

09/07/2010: It was difficult to view the erosion due to the thick Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities.

08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion."

09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6, LM0.60; previously rated "U".

11/05/2008: No change observed; rodent holes on lower slope; wide levee crown. [2016 Site ID:RD2089U01RM29.61]



Front view of the site. Note the very dense white willow thickets on site.

LM Start	0.80	Rating **	М	Issue No.		22	
LM End	0.80	Issue Type +	Ма	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	Category					End	
Item	Slope Sta	bility		37.808466 °		37.808466°	
пеш				-121.39784	7°	-121.397847°	
DWR ID	DWR ID DWR_RD2089_01_f _ 2016_22						
Comment Code							

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Photo 1 of 1: FA_2016_RD2089_316_22_20161017_00048.jpg



View of the footpath on the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.81	Rating **	М	Issue No.		17
LM End	0.94	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		37.8083	19°	37.806453 °
пеш				-121.3978	81 °	-121.397755°
DWR ID DWR_RD2089_01_f _ 2014_17						
		Comn	nent Cod	de		
S1 : Repai	r slope ins	tability.				
		Inspecto	or Comm	nent		
Landside I	evee toe c	ut due to farm	ing.			



View of the vertical cut along the landside levee toe.

LM Start	0.82	Rating **	U	Issue No.		21	
LM End	0.88	Issue Type +	Ма	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	alegory			Start		End	
Item	Vegetatio	n		37.8080	43°	37.807284°	
item				-121.3978	53°	-121.397718°	
DWR ID DWR_RD2089_01_f _ 2016_21							
0 10 1							

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Willows starting to encroach onto levee crown.

Photo 1 of 1: FA_2016_RD2089_316_21_20161017_00047.jpg



View of the vegetation on the waterside levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.94	Rating **	A/W	Issue No.		33
LM End	0.94	Issue Type +	Ma	Location *	WS	
Earthen Levee			GPS Latitude/Longitude			
Category				Start		End
Item	Vegetatio	n		37.8063	97°	37.806397°
пеш			-121.3977	58°	-121.397758°	
DWR ID	D DWR_RD2089_01_s _ 2012_33					
Comment Code						

 $\ensuremath{\mathsf{V2}}$: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arundo on waterside impedes visibility and access to waterside slope.



Arundo was trimmed back and needs to be maintained to allow visibility and access.

LM Start	1.02	Rating **	М	Issue No.	956		
LM End	1.02	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Category	Category					End	
Item	Vegetatio	n		37.806026°		37.806026°	
item				-121.3992	06 °	-121.399206°	
DWR ID DWR_RD2089_01_s _ 2012_956							
	Comment Code						

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberry and tobacco block visibility.

No Photos

Page 11 of 16

Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.07	Rating **	U	Issue No.		957
LM End	1.07	Issue Type +	Ma	Location *		LS
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Vegetatio	n		37.8058	48°	37.805848°
пеш				-121.4000	03°	-121.400003°
DWR ID	DWR_RD2	089_01_s _ 201	2_957			
		Comn	nent Coc	de		
V4 : Elderb	erries are	blocking visib	ility and	flood fight	сара	bility.
		Inspecto	or Comm	nent		
Brush bloc	ks access					

No Photos

LM Start	1.12	Rating **	М	Issue No.		16		
LM End	1.12	Issue Type +	Ма	Location *		LS		
Category Earthen Levee			GPS La	titud	le/Longitude			
			Start		End			
Item	Animal Co	ontrol		37.8056	99°	37.805699°		
item				-121.4009	52 °	-121.400952°		
DWR ID DWR_RD2089_01_f _ 2014_16								
	Comment Code							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Some rodent holes have collapsed. Backfill the remaining voids in the levee slope.

Photo 1 of 1 : FA_2016_RD2089_316_16_20160914_00013.jpg



View of the rodent burrow on the landside levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.19	Rating **	A/W	Issue No.	25		
LM End	1.19	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Vegetatio	n		37.8056	63 °	37.805663°	
пеш			-121.4021	51 °	-121.402151 °		
DWR ID DWR_RD2089_01_s _ 2016_25							
		C		l =			

Comment Code V2 : Remove the wild growth other than native grasses from the levee

slopes.

Inspector Comment

Arrundo was trimmed back but may creep up the waterside levee slope if not maintained.



View of the Arundo on the waterside slope obstructing visibility. LMA is actively trying to remove the wild growth.

LM Start	1.22	Rating **	М	Issue No.		43			
LM End	1.22	Issue Type +	Ma	Location *	CR				
Category Earthen Levee				GPS Latitude/Longitude					
Outogory				Start		End			
Item	rface / Depres	ssions /	37.8057	'35 °	37.805735°				
itom	Rutting			-121.4026	14°	-121.402614 °			
DWR ID	DWR ID DWR_RD2089_01_s _ 2012_43								
		Comn	nent Cod	de					
C3: Add a	ppropriate	gravel or road	d base.	Grade and	com	pact.			
			_						
		Inspecto	or Comm	nent					
11/10/2011 Depression needs to be filled.									

Photo 1 of 1 : FA_2016_RD2089_316_43_20160914_00021.jpg



11/10/2011 Depression in roadway.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.23 Rating ** M		Issue No.		2			
LM End	1.24	Issue Type + Ma Location *		Location *		WS		
Supplemental				GPS Latitude/Longitude				
Calegory			Start		End			
Itom	DWR Ero	sion Survey		37.8055	80°	37.805580 °		
Item			-121.4030	10°	-121.403010 °			
DWR ID								

Comment Code

Inspector Comment

09/16/2016: The river was not navigable near the site due to the dense water grass, so the site was visited by land survey. No significant change observed.

06/25/2015: No significant change observed.

07/02/2014: No significant change observed.

08/13/2013: The erosion is around a tree at the levee toe. Dense vegetation is visible. [2016 Site ID:RD2089U01RM29.04]

LM Start	1.23	Rating **	М	Issue No.	2 (cont)
LM End	1.24	Issue Type +	Ма	Location *	WS

Photo 1 of 2 : SJR2016_RD2089U01RM29.04_1.jpg

View of the erosion from levee slope.

Photo 2 of 2: SJR2016_RD2089U01RM29.04_4.jpg



Close view of the erosion.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.23	Rating **	М	Issue No.		44				
LM End	1.23	Issue Type +	Ма	Location *	LS					
Earthen Levee				GPS L	atitud	le/Longitude				
Category				Start		End				
Item	rface / Depres	ssions /	37.8058	801°	37.805801°					
item	Rutting			-121.402913 °		-121.402913 °				
DWR ID DWR_RD2089_01_s _ 2012_44										
		Comn	nent Cod	de						
C3 : Add a	ppropriate	gravel or road	d base.	Grade and	com	npact.				
		Inspecto	or Comm	nent						
11/10/2011 Depression in roadway needs to be filled.										



11/10/2011 Roadway depression.

LM Start	1.25	Rating **	М	Issue No.	20			
LM End	1.34	Issue Type +	Ма	Location *	LS			
Category Earthen Levee			GPS La	atitud	le/Longitude			
Category				Start		End		
Item	Vegetatio	/egetation			89°	37.806148°		
пеш			-121.403153 °		-121.404804°			
DWR ID	DWR_RD2	089_01_f _ 201	6_20					
		Comn	nent Cod	le				
V1 : Control annual grass and weeds on the levee slopes and easements.								
Inspector Comment								

Photo 1 of 1 : FA_2016_RD2089_316_20_20161017_00046.jpg



View of the vegetation on the landside levee slope.

LM Start	1.34	Rating **	М	Issue No.	45				
LM End	1.34	Issue Type +	Ма	Location *	CR				
Category Earthen Levee				GPS La	atitud	le/Longitude			
Odlogory			Start		End				
Item	Crown Su	ssions /	37.8061	28°	37.806128°				
itom	Rutting				90°	-121.404890 °			
DWR ID	DWR_RD2	089_01_s _ 201	2_45			· ·			
		Comn	nent Cod	le					
C3 : Add a	C3 : Add appropriate gravel or road base. Grade and compact.								
Inspector Comment									
11/10/2011	11/10/2011 Depression needs to be filled.								



11//10/2011 Roadway depression.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.40	Rating **	М	Issue No.		47		
LM End	1.40	Issue Type +	Ma	Location *	LS			
Earthen Levee				GPS L	atitud	e/Longitude		
Category			Start		End			
Item	Animal Control			37.806268 °		37.806268°		
item			-121.405874°		-121.405874°			
DWR ID	DWR_RD2	089_01_s _ 201	2_47					
		Comn	nent Cod	de				
	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
	Inspector Comment							
11/10/2011	11/10/2011 No rodents visible, but active burrows are present.							

11/10/2011 Active rodent burrow on landside slope.

Photo 1 of 1: FA_2016_RD2089_316_46_20160914_00024.jpg

Photo 1 of 1: FA_2016_RD2089_316_47_20160914_00025.jpg

Rating ** Issue No. LM Start 1.40 Μ 46 Location * Issue Type + LS LM End 1.40 Ma Earthen Levee GPS Latitude/Longitude Category Start End 37.806266° Encroachments 37.806266 Item -121.405876 ° -121.405876 DWR ID DWR_RD2089_01_s _ 2012_46 Comment Code TR: Tree or limb Inspector Comment 11/10/2011 Downed tree at levee toe prevents access to levee from landside.

access.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.40	Rating **	U	Issue No.		26	
LM End	1.40	Issue Type +	Ma	Location *	CR		
Category Earthen Levee			GPS La	atitud	e/Longitude		
			Start		End		
ltom	Animal Control			37.806306°		37.806306°	
пеш				-121.405952 °		-121.405952°	
DWR ID	DWR_RD2	089_01_f _ 201	5_26				
		Comn	nent Coc	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
		Inspecto	or Comm	nent			

Rodent hole is at least 4 ft. deep and needs to be backfilled and compacted.



View of the rodent hole on the levee crown.

LM Start	1.44	Rating **	М	Issue No.	49		
LM End	1.44	Issue Type +	Ма	Location *	WS		
Category	Catagory Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Animal Co	ontrol		37.8063	83°	37.806383 °	
пеш				-121.406599°		° -121.406599	
DWR ID	DWR_RD2	089_01_s _ 201	2_49				
Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Deep burrow on waterside needs to be filled.

Photo 1 of 1: FA_2016_RD2089_316_49_20160914_00026.jpg



11/10/2011 Deep burrow on waterside.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.06	Rating **	U	Issue No.		20	
LM End	0.06	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetation			37.8073	41°	37.807341 °	
пеш				-121.408686 ° -121.408			
DWR ID	DWR_RD2	089_02_s _ 201	6_20				
		Comn	nent Cod	de			
V2 : Remo	ove the wild	d growth other	than na	tive grasses	s fro	m the levee	
		Inspecto	or Comm	nent			



View of the vegetation on the landside levee slope.

LM Start	0.07	Rating **	U	Issue No.		4	
LM End	0.07	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetation			37.807375°		37.807375°	
item				-121.408605 °		-121.408605°	
DWR ID DWR_RD2089_02_s _ 2012_4							
		Comn	nent Cod	le			
V4 : Elderb	perries are	blocking visib	ility and	flood fight	сара	bility.	
Inspector Comment							
Thick brus	h may incl	ude some eld	erberries	3.			

No Photos

Page 2 of 19

Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.16	Rating **	U	Issue No.		48
LM End	0.16	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS L	atitud	e/Longitude
Category			Start		End	
Item	Animal Control			37.8085	83°	37.808583 °
пеш				-121.409432 ° -121.40		
DWR ID DWR_RD2089_02_f _ 2013_48						
		Comn	nent Cod	de		
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		



View of the rodent burrow on the landside levee slope.

LM Start	0.21	Rating **	M	Issue No.		49	
LM End	0.21	Issue Type +	Ma	Location *	LS		
Catagory	Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Item	Animal Control			37.809148°		37.809148°	
item			-121.4098	97°	-121.409897°		
DWR ID	DWR_RD2	089_02_f _ 201	3_49				
		Comn	nent Coc	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and							
compact o	r grout bur	rows.					
		Inspecto	or Comm	ent			



View of the multiple rodent burrows on the landside levee hinge and slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.26	Rating **	М	Issue No.		24
LM End	0.26	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End
Item	Animal Co	ontrol		37.8097	17°	37.809717°
item						-121.410511 °
DWR ID DWR_RD2089_02_s _ 2012_24						

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Ground squirrel sighted and active burrowing in area.

Photo 1 of 1 : FA_2016_RD2089_317_24_20160914_00018.jpg



05/24/2011 Active burrows, ground squirrel sighted in area.

LM Start	0.28	Rating **	U	Issue No.		51
LM End	0.28	Issue Type +	Ма	Location *		LS
Category	Catagori Earthen Levee			GPS Latitude/Longitude		
Calegory						End
Item	Animal Co	ontrol		37.8098	99°	37.809899°
item				-121.4108	89°	-121.410889°
DWR ID	DWR RD2	089 02 f 201	3 51			

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : FA_2016_RD2089_317_51_20160914_00034.jpg



View of the rodent burrow on the landside levee toe.

LM Start	0.30	Rating **	U	Issue No.		53	
LM End	0.31	Issue Type +	Ma	Location * LS		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Animal Co	ontrol		37.80997	77°	37.810022	0
пеш				-121.41118	39°	-121.411387	0
DWR ID	DWR_RD2	089_02_f _ 201	3_53	•			

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Exterminating rodents and grouting the burrows recommended.



View of the multiple rodent burrows on the landside levee slope.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy Ob: Design & System Obsolescence
C: Corrected Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.30	Rating **	U	Issue No.		53 (cont)
LM End	0.31	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Animal Co	ontrol		37.8099	77°	37.810022 °
пеш	-121.411189° -121.411					-121.411387°
DWR ID	DWR_RD2	089_02_f _ 201	3_53			
		Comn	nent Cod	de		
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.
		Inspecto	or Comm	nent		
Exterminat	ing rodent	s and grouting	g the bur	rows recon	nmei	nded.

Ма

Issue No.

Location *

53 (cont)

LS

Rating **

Issue Type +

LM Start

LM End

0.30

0.31



View of the rodent burrow on the landside levee slope.

Photo 3 of 3: FA_2016_RD2089_317_53_20160914_00038.jpg



Another view of the multiple rodent burrows on the landside levee slope.

Photo 1 of 1: FA_2016_RD2089_317_26_20160914_00019.jpg

LM Start	0.36	Rating **	М	Issue No.		26
LM End	0.36	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS Latitude/Longitude		e/Longitude
Calegory						End
Item	Animal Co	ontrol	37.810125°		37.810125°	
item				-121.4123	17°	-121.412317°
DWR ID	DWR_RD2	089_02_s _ 201	2_26			
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						

Inspector Comment

Active burrow needs to be repaired.



05/24/2011 Active rodent burrow.

+ Issue Type * Location Ma : Maintenance Deficiancy N/A: Not Applicable LS: Land Side : Acceptable : Minimally Acceptable N: Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.40	Rating **	М	Issue No.		1
LM End	0.41	Issue Type +	Ма	Location *		WS
Category			GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR Ero	sion Survey		37.8099	60°	37.809960 °
пеш			-121.4132	00°	-121.413200°	
DWR ID						

Inspector Comment

Comment Code

09/26/2016: The erosion site was visited by land survey instead of water surface survey due to the dense water grass in the river this year. No significant change observed.

06/25/2015: No significant change observed.

07/02/2014: No significant change observed.

08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed.

08/23/2011: No significant change observed on site.

09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots.

08/05/2010: Recommended for repair, per CLRO.

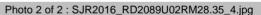
09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey.

11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition. [2016 Site ID:RD2089U02RM28.35]

LM Start	0.40	Rating **	М	Issue No.	1 (cont)
LM End	0.41	Issue Type +	Ma	Location *	WS



View of the site from levee crest.





Close view of the erosion. Note the vegetation at the site.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M: Maintenance Deficiancy

M : Minimally Acceptable CR : Corrected Ob: Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Not Inspected/Rated M: Maintenance Deficiancy
Ob: Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.46	Rating **	М	Issue No.		13	
LM End	0.46	Issue Type +	Ma	Location *		CR	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	ontrol		37.8106	91 °	37.810691°	
item				-121.4140	14 °	-121.414014°	
DWR ID DWR_RD2089_02_s _ 2012_13							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Two old burrows that need to be filled.

Photo 1 of 1 : FA_2016_RD2089_317_13_20160914_00012.jpg



11/10/2011 Two large burrows on crown, need to be filled.

LM Start	0.47	Rating **	М	Issue No.		10
LM End	0.47	Issue Type +	Ma	Location *		CR
Category Earthen Levee			GPS La	atitud	le/Longitude	
Calegory	egory			Start		End
Item	Crown Surface / Depressions /			37.8107	14°	37.810714°
item	Rutting			-121.4140	57°	-121.414057°
DWR ID	DWR_RD2	089_02_s _ 201	2_10			
Comment Code						
C3 : Add appropriate gravel or road base. Grade and compact.						

Inspector Comment

Surface depression needs to be filled.

Photo 1 of 1: FA_2016_RD2089_317_10_20160914_00008.jpg



11/10/2011 Depression in crown needs to be filled.

LM Start	0.50	Rating **	U	Issue No.		54	
LM End	0.50	Issue Type +	Ma	Location *		LS	
Category	GPS La	atitud	e/Longitude				
Category				Start		End	
Item	Animal Co	ontrol		37.8109	89°	37.810989	٥
пеш				-121.4145	17°	-121.414517	٥
DWR ID	DWR_RD2	089_02_f _ 201	3_54			,	

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment



View of the rodent burrow on the landside levee slope.

* Location LS: Land Side N/A: No WS: Water Side

N/A : Not Applicable

A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Mainten

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.50	Rating **	U	Issue No.		44			
LM End	0.50	Issue Type +	Ma	Location *	n * WS				
Category	evee	GPS La	atitud	e/Longitude					
Calegory		Start		End					
Item	Vegetation			37.8110	50°	37.811050°			
пеш				-121.4145	88°	-121.414588°			
DWR ID	DWR_RD2	089_02_f _ 201	6_44						
		Comn	nent Cod	de					
V2 : Remove the wild growth other than native grasses from the levee slopes.									
	Inchastor Comment								

Inspector Comment



View of the vegetation on the levee slopes.

LM Start	0.52	Rating **	U	Issue No.		14
LM End	0.52	Issue Type +	Ма	Location *		WS
Catagoria Earthen Levee			GPS La	atitud	le/Longitude	
Category			Start		End	
Item	Animal Co	ontrol		37.8111	50°	37.811150°
item	item			-121.4147	48 °	-121.414748°
DWR ID DWR_RD2089_02_s _ 2012_14						
Comment Code						

A2: Repair the levee slope damaged by livestock and prevent large animal access.

Inspector Comment

11/10/2011 Repair damage to slope caused by livestock.





11/10/2011 Approximately 1' scarp has been created by livestock travel.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.54	Rating **	М	Issue No.		35	
LM End	0.54	Issue Type +	Ma	Location *	CR		
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item		rface / Depres	ssions /	37.8113	882°	37.811382°	
пеш	Rutting			-121.4150)54°	-121.415054°	
DWR ID	DWR_RD2	089_02_f _ 201	5_35				
		Comn	nent Cod	de			
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.			
		Inspecto	or Comm	nent			

LM Start	0.54	Rating **	М	Issue No.	35 (cont)
LM End	0.54	Issue Type +	Ma	Location *	CR



View of the levee crown depression looking upstream.

Photo 2 of 4: FA_2016_RD2089_317_35_20160914_00023.jpg



View of the levee crown depression looking downstream.

Photo 3 of 4: FA_2016_RD2089_317_35_20160914_00024.jpg

LM Start	0.54	Rating **	М	Issue No.	35 (cont)
LM End	0.54	Issue Type +	Ma	Location *	CR



View of the levee crown depression looking to the landside.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.54	Rating **	М	Issue No.		35 (cont)	
LM End	0.54	Issue Type +	Ma	Location *	CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		rface / Depres	ssions /	37.8113	882°	37.811382°	
iteiii	Rutting		-121.415054°		-121.415054°		
DWR ID	DWR_RD2	089_02_f _ 201	5_35				
		Comn	nent Cod	le			
C2 : Repai	ir depressi	ons or ruts in	the crow	n or slope.			
			_				
Inspector Comment							



View of the levee crown depression looking to the waterside.

LM Start	0.66	Rating **	U	Issue No.		36
LM End	0.80	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS La	atitud	e/Longitude
Calegory						End
Item	Vegetatio	n	37.8126	75°	37.814421 °	
пеш				-121.4153	93 °	-121.414203°
DWR ID	DWR_RD2	089_02_s _ 201	2_36			

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Wild growth and dead underbrush prevents visibility of levee slope and area cannot be accessed if needed for a flood fight.

LM Start	0.66	Rating **	U	Issue No.	36 (cont)
LM End	0.80	Issue Type +	Ма	Location *	LS

Photo 1 of 2: FA_2016_RD2089_317_36_20160914_00026.jpg



Extremely thick dead brush prevents access and visibility.

Photo 2 of 2: FA_2016_RD2089_317_36_20161017_00054.jpg



Another view of the thick vegetation on the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.66	Rating **	М	Issue No.		43	
LM End	0.66	Issue Type +	Ма	Location *		WS	
Catagoriu Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Item	Animal Control			37.812677°		37.812677°	
item				-121.415393 °		-121.415393°	
DWR ID	DWR_RD2	089_02_f _ 201	6_43				
Comment Code							
A2 : Repair the levee slope damaged by livestock and prevent large							

animal access.

Inspector Comment



Photo 1 of 1: FA_2016_RD2089_317_43_20161017_00055.jpg



View of the animal paths on the waterside levee slope.

LM Start	0.76	Rating **	М	Issue No.	15			
LM End	0.76	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Erosion / Bank Caving				37.8139	34 °	37.813934°		
Item				-121.4143	20°	-121.414320°		
DWR ID	DWR_RD2	089_02_f _ 201	4_15					
	Comment Code							

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Photo 1 of 1: FA_2016_RD2089_317_15_20160914_00014	l.jpg
The same of the sa	
TOTEWZDIA	

View of the scour from surface runoff on the landside levee slope.

LM Start	0.83	Rating **	М	Issue No.		21	
LM End	0.83	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End			
Item	Animal Co	ontrol		37.8147	73°	37.814773	0
item				-121.4145	55 °	-121.414555	0
DWR ID	DWR_RD2	089_02_s _ 201	2_21			,	

Comment Code

A2 : Repair the levee slope damaged by livestock and prevent large animal access.

Inspector Comment

Livestock have worn paths into levee slope.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.83	Rating **	М	Issue No.		38		
LM End	0.83	Issue Type +	Ma	Location *		WS		
Category	evee	GPS Latitude/Longitude						
Category				Start		End		
Item	Animal Co	ontrol		37.8148	44°	37.814844°		
пеш				-121.414566 °		-121.414566°		
DWR ID DWR_RD2089_02_s _ 2012_38								
		Comn	nent Cod	de				
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.								
		Inspecto	or Comm	nent				
Active bur	Active burrows present.							

No Photos

LM Start	0.84	Rating **	М	Issue No.		25		
LM End	0.84	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Vegetation Item				37.814906°		37.814906°		
item			-121.414745 °		-121.414745°			
DWR ID	DWR ID DWR_RD2089_02_s _ 2012_25							
Comment Code								
VA · Eldork	orrigo oro	blooking vioit	sility and	flood fight	2000	hility		

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberry and blackberry on levee slope.

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.84	Rating **	М	Issue No.		42	
LM End	0.84	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Slope Sta	bility		37.81493	31 °	37.814931	0
item						-121.414756	0
DWR ID DWR_RD2089_02_f _ 2016_42							

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Ramp is encroaching into the levee slope. Add appropriate material to stabilize the slope.



View of the ramp on the landside levee slope.

LM Start	0.85	Rating **	U	Issue No.		40
LM End	0.90	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Category				Start		End
Item	Animal Co	ontrol		37.8149	97°	37.814970°
пеш				-121.4147	74°	-121.415767°
DWR ID	DWR_RD2	089_02_s _ 201	2_40			•

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and landside ramp.

LM Start	0.85	Rating **	U	Issue No.	40 (cont)
LM End	0.90	Issue Type +	Ma	Location *	LS

Photo 1 of 3: FA_2016_RD2089_317_40_20160914_00028.jpg



05/24/2011 Deep vertical burrow in ramp on land side of levee.

Photo 2 of 3: FA_2016_RD2089_317_40_20160914_00029.jpg



05/24/2011 Deep vertical burrow in levee crown.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.85	Rating **	U	Issue No.		40 (cont)
LM End	0.90	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Item	Animal Co	ontrol		37.8149	97°	37.814970 °
ILEIII				-121.4147	74 °	-121.415767 °
DWR ID DWR_RD2089_02_s _ 2012_40						

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and landside ramp.

Photo 3 of 3: FA_2016_RD2089_317_40_20160914_00030.jpg



View of the multiple rodent holes on the landside levee slope.

LM Start	0.85	Rating **	U	Issue No.		39
LM End	0.88	Issue Type +	Ма	Location *		LS
Category Earthen Levee				GPS La	titud	e/Longitude
Category			Start		End	
Item	Vegetatio	n		37.8149	67°	37.815017°
item				-121.4148	39°	-121.415455°
DWR ID DWR_RD2089_02_f _ 2016_39						

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Tumbleweeds on landside levee hinge and slope.

CR : Crown

Photo 1 of 1 : FA_2016_RD2089_317_39_20161017_00053.jpg



View of the vegetation on the landside levee slope.

LM Start	0.91	Rating **	М	Issue No.		22	
LM End	0.91	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	tituc	le/Longitude	
Category				Start		End	
Item	Animal Co	ontrol		37.8149)3°	37.814903	c
пеш				-121.4158	87°	-121.415887	C
DWR ID	DWR_RD2	089_02_s _ 201	5_22				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

U : Unacceptable

No Photos

En : Enforcement

* Location		** Rating	+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
M/S · M/ater Side		M · Minimally Acceptable	C · Corrected	Oh · Design & System Ohsolesc

A/W : Acceptable but Monitor & Maintain

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	0.94	Rating **	М	Issue No.		41		
LM End	0.94	Issue Type +	Ма	Location *		WS		
Catagony	Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory						End		
Item	Encroach	ments		37.8149	40°	37.814940°		
пеш				-121.416499 °		-121.416499°		
DWR ID	DWR ID DWR_RD2089_02_s _ 2012_41							
		Comn	nent Cod	de				
PI : Pipe								
		Inspecto	or Comn	nent				
Debris/CM	P on levee	slope needs	to be re	moved.				



05/24/2011 Old CMP left on waterside levee slope, needs to be removed.

LM Start	0.95	Rating **	U	Issue No.		5		
		Issue Type +		Location *				
LM End	0.95	issue Type +	Ma	Location		LS		
Category	evee		GPS La	atitud	e/Longitude			
Category			Start		End			
Item	ontrol		37.8149	15°	37.814915°			
пеш				-121.416606 °		-121.416606°		
DWR ID DWR_RD2089_02_s _ 2014_5								
		Comn	nent Cod	de				
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.		
		Inspecto	or Comm	nent				



View of the rodent holes on the landside levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.00	Rating **	U	Issue No.		12			
LM End	1.00	Issue Type +	Ma	Location *		CR			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Animal Co	ontrol		37.8151	82°	37.815182°			
пеш	-121.417439° -121.41743								
DWR ID DWR_RD2089_02_f _ 2014_12									
		Comn	nent Cod	de					
	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.								
		Inspecto	or Comm	nent					

LM Start	1.00	Rating **	U	Issue No.	12 (cont)
LM End	1.00	Issue Type +	Ма	Location *	CR



View of several large rodent holes on the levee crown.

Photo 2 of 2: FA_2016_RD2089_317_12_20160914_00011.jpg



View of several rodent burrows on landside levee hinge and crown.

LM Start	1.05	Rating **	N	Issue No.		29	
LM End	1.05	Issue Type +	Ма	Location *	WS		
Category Earthen Levee			GPS La	titud	le/Longitude		
Calegory	Salegory			Start		End	
Item	Trim / Thi	im / Thin Trees			29°	37.815629°	
itom				-121.4181	33 °	-121.418133°	
DWR ID	DWR_RD2	089_02_s _ 201	2_29				
Comment Code							
T5 : Tree stumps.							

Inspector Comment

14" dia stump. Could not verify as the area is overgrown with high weeds.

Photo 1 of 1: FA_2016_RD2089_317_29_20160914_00021.jpg



Tree stump >2" left after vegetation and tree removal.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.09	Rating **	М	Issue No.		17				
LM End	1.09	Issue Type +	Ma	Location *	* WS					
Category	Earthen L	evee		GPS La	atitud	le/Longitude				
Calegory				Start		End				
Item	Encroach	ments		37.8161	00°	37.816100°				
пеш				-121.418487°		-121.418487°				
DWR ID DWR_RD2089_02_s _ 2012_17										
		Comn	nent Cod	de						
DE : Debri	S									
		Inspecto	or Comm	nent						
Water tanl	Water tanks disposed of on levee are obstructive.									
·										



View of water tanks disposed on waterside slope.

LM Start	1.12	Rating **	М	Issue No.		30			
LM End	1.12	Issue Type +	Ma	Location *		WS			
Category Earthen Levee			GPS Latitude/Longitude						
Calegory				Start		End			
Item	Vegetation			37.8164	87°	37.816487°			
item				-121.4189	48 °	-121.418948°			
DWR ID	DWR ID DWR_RD2089_02_s _ 2012_30								
	Comment Code								
\/4 . □ -		والماني ومراوا ماوا	.::::::::::::::::::::::::::::::::::::::	flaad fialata		L ::::			

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

LM Start	1.18	Rating **	М	Issue No.		6		
LM End	1.18	Issue Type +	Ma	Location *		LS		
Category	evee	GPS La	atitud	le/Longitude				
Category		Start		End				
Item	Item Animal Control				71 °	37.817271 °		
item					80°	-121.419380 °		
DWR ID	DWR_RD2	089_02_s _ 201	4_6					
		Comn	nent Cod	de				
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	it burrows.		
	Inspector Comment							



View of the large rodent hole on the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.24	Rating **	U	Issue No.		31			
LM End	1.24	Issue Type +	Ma	Location *		WS			
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Vegetatio	n		37.8180	51 °	37.818051 °			
пеш				-121.4197	43°	-121.419743°			
DWR ID DWR_RD2089_02_s _ 2012_31									
		Comn	nent Cod	de					
V4 : Elderl	perries are	blocking visib	ility and	flood fight	capa	ability.			
	Inspector Comment								

No Photos

LM Start	1.24	Rating **	U	Issue No.		28	
LM End	1.24	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee				atitud	e/Longitude	
Calegory			Start		End		
Item	Animal Control				12°	37.818112°	
Item				-121.419720 °		-121.419720°	
DWR ID	DWR ID DWR_RD2089_02_f _ 2016_28						
		Comn	nent Cod	de			
A1 : Exteri	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
Inspector Comment							



View of the rodent burrow in the landside levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.29	Rating **	U	Issue No.	19		
LM End	1.29	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory			Start		End		
Item	Animal Control				'40 °	37.818740°	
item				-121.419759 ° -121.4197			
DWR ID DWR_RD2089_02_f _ 2016_19							
		Comn	nent Cod	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
Inspector Comment							

Photo 1 of 1: FA_2016_RD2089_317_19_20161017_00048.jpg



View of the rodent burrow in the landside levee slope.

LM Start	1.29	Rating **	A/W	Issue No.	32			
LM End	1.29	Issue Type +	Ma	Location *	WS			
Catagoria Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Vegetation		37.818829°		37.818829	0			
Item		-121.4197	76°	-121.419776	0			
DWR ID DWR_RD2089_02_s _ 2012_32								
Comment Code								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

	LM Start	1.29	Rating **	N	Issue No.		18	
	LM End	1.29	Issue Type +	Ма	Location *		LS	
	Category Earthen Levee			GPS Latitude/Longitude				
	Calegory		Start		End			
Item Trim / Thin Trees		n Trees		37.8188	43°	37.818843	0	
	item		-121.419762 °		-121.419762	0		
	DWR ID DWR_RD2089_02_f _ 2016_18							
Comment Code								
	T5 : Tree s	stumps.						

Inspector Comment



View of the tree stump from the levee crown.

* Location LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	10/13/2016 10/13/2016	Maksim Khashchuk

LM Start	1.30	Rating **	U	Issue No.		16
LM End	1.30	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory			Start		End	
Item	Animal Control				87°	37.818987°
item				-121.4197	-121.419767°	
DWR ID DWR_RD2089_02_s _ 2015_16						
		Comn	nent Cod	de		
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	it burrows.
Inspector Comment						



View of the rodent burrow in the landside levee slope.

LM Start	1.33	Rating **	U	Issue No.		11	
LM End	1.33	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item Animal Control			37.819371°		37.819371°		
				-121.4197	74°	-121.419774°	
DWR ID DWR_RD2089_02_f _ 2014_11							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Some of the rodent hole openings have collapsed.

Photo 1 of 1: FA_2016_RD2089_317_11_20160914_00009.jpg



View of the multiple rodent burrows on the landside levee slope.